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1. OSD13-HS3: Technologies for Low-Bandwidth, High-Latency Unmanned Ground Vehicle Control

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop algorithmic approaches to enabling robust control of autonomous unmanned ground vehicles operating in complex, unstructured environments, over low-bandwidth, high latency communication links. DESCRIPTION: This topic addresses the problem of robustly commanding and controlling unmanned ground vehicles operating in complex, unstructured environments. Current approaches to this ...

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2. OSD13-HS4: Unmanned Systems Perception Workbench for Test and Evaluation

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop an API and User Interface for testing and evaluating the performance of perception systems for autonomous vehicles. DESCRIPTION: Perception systems for autonomous vehicles are often tuned to a specific platform and thus will degrade in performance if transferred to a different platform. For example, terrain costs are computed according to a fixed mapping from perceived te ...

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3. OSD13-HS5: Human/Autonomous-System Interaction and Collaboration

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop innovative frameworks, tools, and human-machine interfaces that provide improved trust, transparency in the autonomous system or provide more flexible, cognitively matched human-machine interaction and cooperation. DESCRIPTION: Human-autonomous system interaction is frequently limited by lack of confidence and trust among the (combined) team. In order to have humans colla ...

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4. OSD13-LD1: Deep Analytics for Data in Cyber-Physical Systems

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

Objective: To develop and integrate automated algorithms with visual analytic tool for processing information in cyber-physical systems. Description: As the Department of Defense increasingly emphasizes autonomous implementation of many tasks that are traditionally done by humans, it is imperative that the Tri-Services support scientific research and technology development in the domain of hu ...

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5. OSD13-LD2: Knowledge-aided Interface for Big Data Streams

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop an innovative cognitive knowledge-aided interface and supporting information processing techniques to exploit very large data streams over wide areas and autonomously highlight areas of interest for tactical decisions without a priori knowledge of the area and/or location of high value. DESCRIPTION: Big data challenges across Department of Defense (DOD) domains are increasi ...

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6. OSD13-LD3: Layered Data to Areas of Interest

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: The objective of this research is to use spatial, temporal and graph analysis techniques to take very large data streams over wide areas and autonomously highlight areas of interest for a decision maker without a priori knowledge of the area and/or location of high value. DESCRIPTION: To protect U.S. national interests and achieve the objectives of the 2010 National Security Strategy ...

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7. OSD13-PR1: Direct Injection Systems for Improved Performance, Durability, and Economy

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop and demonstrate an advanced high pressure, heavy fuel (JP-8) injection system for UAS/UGS applications, capable of performing multiple injections per cycle. DESCRIPTION: This effort is to develop a fast responding, light weight, direct injection system to operate within the fuel"s ignition delay time for UAS/UGS application. These systems must be applicable to engines that ...

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8. OSD13-PR2: Advanced Sealing Concepts for Small Heavy-fuel, Remotely Piloted Aircraft Propulsion Systems

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop sealing technologies for heavy fuel engines for Remotely Piloted Aircraft (RPA). The technology should address sealing in engine classes of reciprocating and rotary engines for improved durability. DESCRIPTION: Shortfalls with existing RPA systems include durability issues associated with engine seals. Two key RPA systems in the DoD inventory are the USAF's Predator and U ...

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9. OSD13-PR3: Advanced Thermal Management Systems for Improved UAV Engine Durability/Performance

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: To develop, and demonstrate improvements in cooling capability of propulsion systems currently in use on unmanned aerial vehicles (UAV); to show a 20% reduction in cooling efficiency. DESCRIPTION: Two of the most popular UAVs used in the US are the US Air Force"s Predator, and the US Army"s Shadow 200. The US Air Force Predator is classified as a medium altitude, long endurance UA ...

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10. OSD13-PR4: Advanced Durability Systems for UAS Propulsion

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Improve UAS engine durability by applying advanced designs/materials for bearing, housing, and rotating components/systems. DESCRIPTION: UAS propulsion systems currently suffer from durability issues resulting in frequent overhauls. Incorporating advanced durability systems could lead to longer durations between engine overhaul times and increased engine life, resulting in a lar ...

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